GILA RIVER BASIN

09507980 EAST VERDE RIVER NEAR CHILDS, AZ

LOCATION.--Lat 34° 16'35", long 111° 38'17", in sec. 21, T.11 N., R.7 E. (unsurveyed), Gila County Hydrologic Unit 15060203, in Tonto National Forest, on left bank 1.6 mi upstream from mouth and 6 mi southeast of Childs.

DRAINAGE AREA.--331 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Sept. 1961 to Dec. 1965 and May 1967 to current year.

REVISED RECORDS.--WDR AZ–89–1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 2,500 ft above sea level, from topographic map. Sept. 1, 1961, to Dec. 15, 1965, at site 1 mi upstream at elevation of 2,600 ft above sea level, datum raised 0.38 ft Oct. 4, 1963. May 25, 1967, to July 20, 1972, at present site at datum 3.29 ft higher, datum lowered 2.00 ft Jan. 7, 1993.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Since Sept. 30, 1965, records include transbasin diversions from East Clear Creek to headwaters of East Verde River. (See sta 09507580 and 09398300.)

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,500 ft^3/s Sept. 5, 1970, gage height, 22.5 ft, present datum, from profile past gage, from rating curve extended above 960 ft^3/s on basis of slope-area measurements at gage heights 12.11 and 22.5 ft, present datum; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 11	1345	*131	*2.59

Minimum daily discharge, no flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	7.8	5.4	5.3	7.8	3.9	3.0	1.1	0.09	0.00	0.00	0.00
2	9.2	6.4	5.3	5.5	7.5	3.8	2.7	1.1	0.00	0.00	0.00	0.00
3	9.7	5.7	5.2	5.5	7.2	3.8	2.6	1.1	0.00	0.00	0.00	0.00
4	20	5.1	12	5.6	6.6	4.1	2.4	0.92	0.00	0.00	0.00	0.00
5	14	5.3	14	6.1	5.6	4.2	2.3	0.85	0.00	0.00	0.00	0.00
6	13	5.1	11	6.3	5.0	4.2	2.8	0.79	0.00	0.00	0.00	0.00
7	14	5.1	9.5	6.4	6.0	4.3	5.1	0.72	0.00	0.00	0.00	0.00
8	18	5.1	7.7	6.4	6.0	4.6	5.9	0.68	0.00	0.00	0.00	0.56
9	25	4.5	7.5	5.9	6.0	4.7	4.3	0.66	0.00	0.00	0.00	0.35
10	19	4.3	6.8	5.1	5.7	4.3	4.0	0.60	0.00	0.00	0.00	0.12
11	15	4.2	6.5	4.6	4.9	4.9	3.5	0.54	0.00	0.00	0.00	42
12	15	4.3	7.1	4.5	4.8	4.6	3.4	0.51	0.00	0.00	0.00	47
13	13	4.4	7.8	6.0	5.2	3.7	3.0	0.43	0.00	0.00	0.00	9.3
14	13	4.8	7.4	6.1	5.1	3.5	2.6	0.39	0.00	0.00	0.00	2.2
15	13	4.8	8.0	6.3	6.2	3.7	2.2	0.35	0.00	0.00	0.00	0.83
16	13	4.9	7.9	6.5	6.5	4.6	2.1	0.32	0.00	0.00	0.00	0.44
17	13	4.8	7.3	6.4	5.4	5.2	2.2	0.29	0.00	0.00	0.00	0.21
18	13	4.8	7.2	6.3	4.8	5.3	2.0	0.26	0.00	0.00	0.00	0.05
19	13	4.7	7.0	5.8	4.7	5.6	1.8	0.24	0.00	0.00	0.00	0.03
20	13	4.7	6.7	5.8	4.6	5.3	1.9	0.26	0.00	0.00	0.00	0.00
21	13	4.7	6.6	5.1	4.7	4.5	1.9	0.25	0.00	0.00	0.00	0.00
22	13	4.7	6.4	4.6	4.6	4.1	1.9	0.27	0.00	0.00	0.00	0.00
23	13	4.3	5.8	4.7	4.5	3.7	1.8	0.29	0.00	0.00	0.00	0.00
24	13	4.3	5.7	5.9	4.5	3.7	1.7	0.29	0.00	0.00	0.00	0.00
25	14	5.1	5.5	6.0	4.4	3.9	1.6	0.29	0.00	0.00	0.00	0.00
26	14	5.3	5.5	6.0	4.2	3.7	1.4	0.28	0.00	0.00	0.00	0.00
27	14	5.5	5.4	6.0	4.1	3.3	1.3	0.33	0.00	0.00	0.00	0.00
28	14	5.5	5.3	5.4	4.2	3.1	1.3	0.33	0.00	0.00	0.00	0.00
29	13	5.1	5.1	4.9	---	3.5	1.3	0.34	0.00	0.00	0.00	0.00
30	14	5.3	5.1	5.4	---	3.6	1.2	0.27	0.00	0.00	0.00	0.00
31	11	---	4.9	8.1	---	3.2	---	0.19	---	0.00	0.00	---
TOTAL	430.3	150.6	218.6	178.5	150.8	128.6	75.2	15.24	0.09	0.00	0.00	103.09
MEAN	13.88	5.020	7.052	5.758	5.386	4.148	2.507	0.492	0.003	0.000	0.000	3.436
MAX	25	7.8	14	8.1	7.8	5.6	5.9	1.1	0.09	0.00	0.00	47
MIN	8.4	4.2	4.9	4.5	4.1	3.1	1.2	0.19	0.00	0.00	0.00	0.00
AC-FT	854	299	434	354	299	255	149	30	0.2	0.00	0.00	204
CFSM	0.04	0.02	0.02	0.02	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.01
IN.	0.05	0.02	0.02	0.02	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2002, BY WATER YEAR (WY)

MEAN	29.57	32.91	56.00	124.4	156.3	171.7	84.50	27.45	16.99	20.23	33.26	29.40
MAX	308	157	443	1819	1147	968	421	115	48.8	60.9	203	282
(WY)	1973	1979	1979	1993	1980	1978	1998	1973	1980	1999	1992	1970
MIN	0.73	0.83	1.42	2.25	3.69	4.15	2.51	0.37	0.003	0.000	0.000	0.73
(WY)	1992	1963	1963	1963	1964	2002	2002	2000	2002	2002	2002	1972

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1961 - 2002	
ANNUAL TOTAL	11261.0		1451.02			
ANNUAL MEAN	30.85		3.975		64.89	
HIGHEST ANNUAL MEAN					290	1993
LOWEST ANNUAL MEAN					3.98	2002
HIGHEST DAILY MEAN	856	Mar 10	47	Sep 12	11000	Jan 8 1993
LOWEST DAILY MEAN	1.3	Jun 30	0.00	Jun 2	0.00	Jun 11 1996
ANNUAL SEVEN-DAY MINIMUM	2.2	Jun 27	0.00	Jun 2	0.00	Jun 18 1996
ANNUAL RUNOFF (AC-FT)	22340		2880		47010	
ANNUAL RUNOFF (CFSM)	0.093		0.012		0.20	
ANNUAL RUNOFF (INCHES)	1.27		0.16		2.66	
10 PERCENT EXCEEDS	52		9.2		100	
50 PERCENT EXCEEDS	9.9		3.7		22	
90 PERCENT EXCEEDS	5.1		0.00		2.0	

PERIOD OF RECORD.--Dec. 1990 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY (NTU) (00076)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)
NOV													
28...	1515	5.2	1.6	694	10.9	102	8.3	463	12.5	8.3	210	45.0	45.0
MAR													
26...	1410	3.7	1.8	692	9.8	113	8.3	483	28.0	17.4	190	39.0	40.0
JUN													
26...	1230	.0	1.4	693	8.6	123	8.0	1110	--	29.1	210	49.0	48.0
AUG													
28...	1210	.0	10	692	8.2	121	7.9	1040	40.0	29.5	200	44.0	46.0

Date	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)
NOV													
28...	23.0	23.0	2.00	.6	21.0	233	247	6	10.0	.3	6.40	<1	.35
MAR													
26...	22.0	23.0	2.10	.9	28.0	226	264	6	16.0	.4	9.30	1	.38
JUN													
26...	22.0	22.0	8.20	5	160	448	509	18	86.0	2.4	28.0	2	.84
AUG													
28...	21.0	21.0	7.90	5	170	431	497	14	82.0	2.3	25.0	17	.84

Date	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, TOTAL (MG/L AS NO3) (71887)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ANTI-MONY, TOTAL (UG/L AS SB) (01097)
NOV													
28...	258	235	<.20cl	<.01	<.020	--	--	<.02cl	<5	<1k	E2k	<1	<1
MAR													
26...	276	253	<.20	<.01	<.020	--	--	<.02	<5	E1k	E3k	<1	<1
JUN													
26...	619	626	<.20	<.01	<.020	--	--	<.02	<5	E14k	27	<1	<1
AUG													
28...	621	613	.30	<.01	.050	.35	1.5	.04	12	--	--	<1	<1

Date	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, DIS-SOLVED (UG/L AS B) (01020)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
NOV													
28...	34	36	65.0	65.0	<1	<1	153	154	<.5	<.5	<1	<1	<2
MAR													
26...	51	51	57.0	62.0	<1	<1	219	239	<.5	<.5	<1	<1	4
JUN													
26...	388	394	78.0	81.0	<1	<1	1690	1730	<.5	<.5	<1	<1	<2
AUG													
28...	317	326	72.0	77.0	<1	<1	1630	1630	<.5	<.5	<1	<1	<2

09507980 EAST VERDE RIVER NEAR CHILDS, AZ—CONTINUED

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
NOV													
28...	<2	3	115	<2	<2	15	19	<.10	<.1	<1	<1	<1	<1
MAR													
26...	<2	6	129	<2	<2	8	18	<.10	<.1	<1	<1	<1	<1
JUN													
26...	<2	5	100	<2	<2	6	13	<.10	<.1	<1	<1	<1	<1
AUG													
28...	<2	8	426	<2	<2	6	41	<.10	<.1	<1	1	<1	<1

Date	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	THAL-LIUM, DIS-SOLVED (UG/L AS TL) (01057)	THAL-LIUM, TOTAL (UG/L AS TL) (01059)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV									
28...	<1	<1	230	<2	<2	2	<2	3.0	.04
MAR									
26...	<1	<1	250	<2	<2	7	<2	3.0	.03
JUN									
26...	<1	<1	560	<2	<2	8	<2	53	--
AUG									
28...	<1	<1	510	<2	<2	4	3	23	--

Remark codes used in this report:
< -- Less than
E -- Estimated value
Value qualifier codes used in this report:
c -- See laboratory comment
k -- Counts outside acceptable range
l -- Sample lab preparation problem

09507980 EAST VERDE RIVER NEAR CHILDS, AZ—CONTINUED

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Water-quality measurements in the following table were made as part of the ADEQ Fixed-Station Network Program. The following analyses are quality-assurance samples processed during the 2002 sampling period and are defined in the introductory text section titled "Water-Quality Control Data".

Date	Time	Sample type	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)
JUN 25...	1550	2	6.2	1	.04	<.03	<.1	<.20	<.01	<.020	<.02	<3	<.5

Date	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
JUN 25...	<1	<.5	<1	<2	<2	<2	<1	<1	2

0Remark codes used in this report:
< -- Less than